

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

# PATENT SPECIFICATION

DRAWINGS ATTACHED

Inventor: WILLIAM JAMES BRIDGE

Date of filing Complete

Specification: May 19, 1958.

Application Date: July 16, 1957.

Complete Specification Published: June 22, 1960.

838,375

No. 22549/57.



Index at acceptance :—Classes 8(1), I(1A4B:2D); and 8(2), D3E2A.

International Classification :—A47L B01d.

## COMPLETE SPECIFICATION

### Vacuum cleaner attachment

We, ROLLNICK & GORDON LIMITED, of Capitol Works, Empire Way, Wembley, Middlesex, a British Company, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in the following statement:—

This invention relates to an attachment for a hand propelled outside bag type vacuum cleaner, which enables dispensable paper filter bags to be used without having to resort to bags with an inner sleeve.

With cleaners of the type referred to, dust usually enters a fabric filter bag at its lowest point the top of the bag having an opening for emptying normally closed by a metal clip, whilst an inner sleeve at the bottom prevents the dust from falling back through the machine when the latter is not being driven. Whilst a corresponding construction can without difficulty be provided in a filter paper it is found to be undesirably expensive.

According to this invention an attachment for a hand propelled outside bag-type vacuum cleaner comprising an outlet nozzle fitting for the cleaner, impermeable flexible piping for connecting said fitting to an air chamber formed with an outlet nozzle, said chamber being anchored to an upper portion of the cleaner handle so that the outlet nozzle points generally downwards, and a paper filter bag adapted to be secured to said outlet nozzle. Preferably the attachment also comprises an outside air permeable fabric tube secured to or adjacent to nozzle fitting for pulling up over the piping and bag (when fitted). Such tube will prevent the bag from swinging about as well as simulating a more traditional bag appearance; it may have an elasticated or drawstring top.

Conveniently the outlet nozzle is formed in an air chamber constituting a crosshead for attaching across a pair of spaced flexible pipes joined at their lower ends separately or in common to the outlet nozzle fitting.

[Price 3/6]

In this way the filter bag will hang at its top between the pipes, to give a balanced arrangement. The top of the air chamber, which may be of metal or plastic, may be formed with attachment means such as an eye or hook for suspending from the upper end of the cleaner handle. It may be shaped as an elongated box with three spaced nozzles upstanding from a long face, or as an E-shaped stiff pipe. It may be formed with a peripheral flange or groove for anchoring the drawstring or elastic top of an outer fabric bag.

The invention will be described further with reference to the accompanying drawings, 60 of which:—

Fig. 1 is a side view partly sectional, of a vacuum cleaner with an attachment fitted;

Fig. 2 is a rear view partly sectional, of the cleaner and attachment of Fig. 1;

Fig. 3 is a side view of an air chamber forming part of the aforesaid attachment, and

Fig. 4 is a plan view of the air chamber.

The vacuum cleaner 1, which may be 70 driven electrically or by traction is furnished with an outlet 2 suitable for engagement by an outlet nozzle fitting on a conventional cloth duct bag. Instead of the latter, however, there is fitted an attachment comprising 75 an outlet nozzle fitting 3 connected to flexible piping 4 which may be of lay-flat construction and may be of thin wall plastic such as polythene or plasticised polyvinyl chloride. This piping is bifurcated and the limbs 5 are 80 secured (by clips 6) to respective inlet nozzles 7 of an air chamber 8, seen separately in Figs. 3 and 4. This has a rib 9 at the top formed with an eye 10 by means of which it is anchored to the usual clip means 11 of 85 cleaner 1 provided for supporting a dust bag. In addition the air chamber 8 is formed with a central outlet nozzle 12, grooved at 13 for the ready attachment by a clip or elastic band 14 of a dispensable paper dust bag 15. 90

Price 5s. 0d.

Price 4s. 6d.

Around the periphery of the air chamber 8 is another rib 16 serving as anchorage for an air-permeable cover tube 17 which serves to provide a conventional appearance and prevents bag 15 from swinging about in use. The tube 17, is anchored at the bottom to nozzle fitting 3.

#### WHAT WE CLAIM IS:—

1. An attachment for a hand propelled outside bag-type vacuum cleaner comprising an outlet nozzle fitting for the cleaner, impermeable flexible piping for connecting said fitting to an air-chamber formed with an outlet nozzle, said chamber being anchored to an upper portion of the cleaner handle so that the outlet nozzle points generally downwards, and a paper filter bag adapted to be secured to said outlet nozzle.

2. An attachment according to Claim 1,

further comprising an outside air permeable fabric tube secured to or adjacent the nozzle fitting for pulling up over the piping and bag.

3. An attachment according to Claim 1 or 2, in which the air chamber constitutes a crosshead for attaching across a pair of spaced flexible pipes joined at their lower ends to the outlet nozzle fitting.

4. An attachment according to Claim 3, in which the air chamber is substantially E-shaped the limbs representing nozzles whilst the back is furnished with anchorage means to enable it to be suspended from the cleaner handle.

5. An attachment for an outside bag type vacuum cleaner substantially as hereinbefore described with reference to, and as shown in, the accompanying drawings.

MARKS & CLERK.

#### PROVISIONAL SPECIFICATION

##### Vacuum cleaner attachment

We, ROLLNICK & GORDON LIMITED, of Capitol Works, Empire Way, Wembley, Middlesex, a British Company, do hereby declare this invention to be described in the following statement:—

This invention, relates to an attachment for an outside bag type vacuum cleaner, which enables dispensible paper filter bags to be used without having to resort to bags with an inner sleeve.

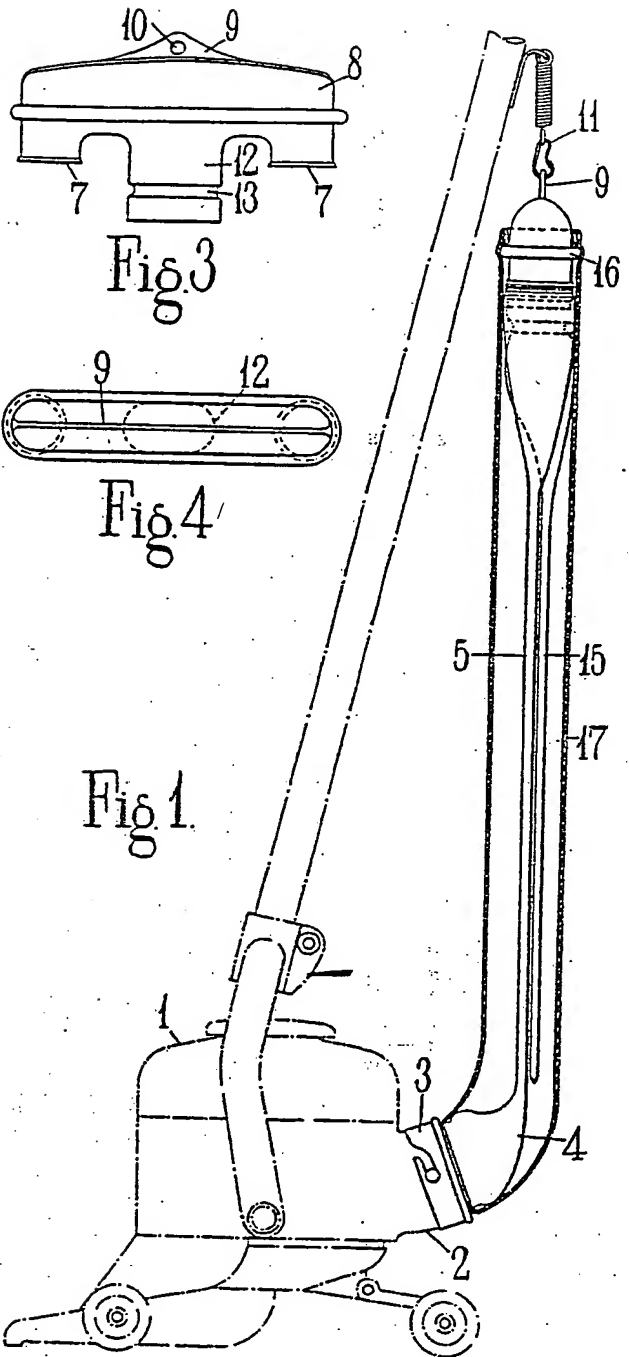
With cleaners of the type referred to, dust usually enters a fabric filter bag at its lowest point the top of the bag having an opening for emptying normally closed by a metal clip, whilst an inner sleeve at the bottom prevents the dust from falling back through the machine when the latter is not being driven. Whilst a corresponding construction can without difficulty be provided in a filter paper it is found to be undesirably expensive.

According to this invention an attachment for an outside bag-type vacuum cleaner comprises an outlet nozzle fitting for the cleaner and flexible piping for connecting this to an outlet nozzle adapted to be clipped or otherwise anchored to an upper portion of the cleaner handle so as to point generally downwards for connection to the neck or a

depending paper filter bag. Preferably the attachment also comprises an outside fabric tube secured to or adjacent the nozzle fitting for pulling up over the piping and bag (when fitted). Such tube will prevent the bag from swinging about as well as simulating a more traditional bag appearance; it may have an elasticated or drawstring top.

Conveniently the outlet nozzle is formed in an air chamber constituting a crosshead for attaching across a pair of spaced flexible pipes joined at their lower ends separately or in common to the outlet nozzle fitting. In this way the filter bag will hang at its top between the pipes, to give a balanced arrangement. The top of the air chamber, which may be of metal or plastic, may be formed with attachment means such as an eye or hook for suspending from the upper end of the cleaner handle. It may be shaped as an elongated box with three spaced nozzles upstanding from a long face, or as an E-shaped stiff pipe. It may be formed with a peripheral flange or groove for anchoring the drawstring or elastic top of an outer fabric bag.

MARKS & CLERK.



838,375 COMPLETE SPECIFICATION

2 SHEETS

This drawing is a reproduction of  
the Original on a reduced scale.  
SHEETS 1 & 2

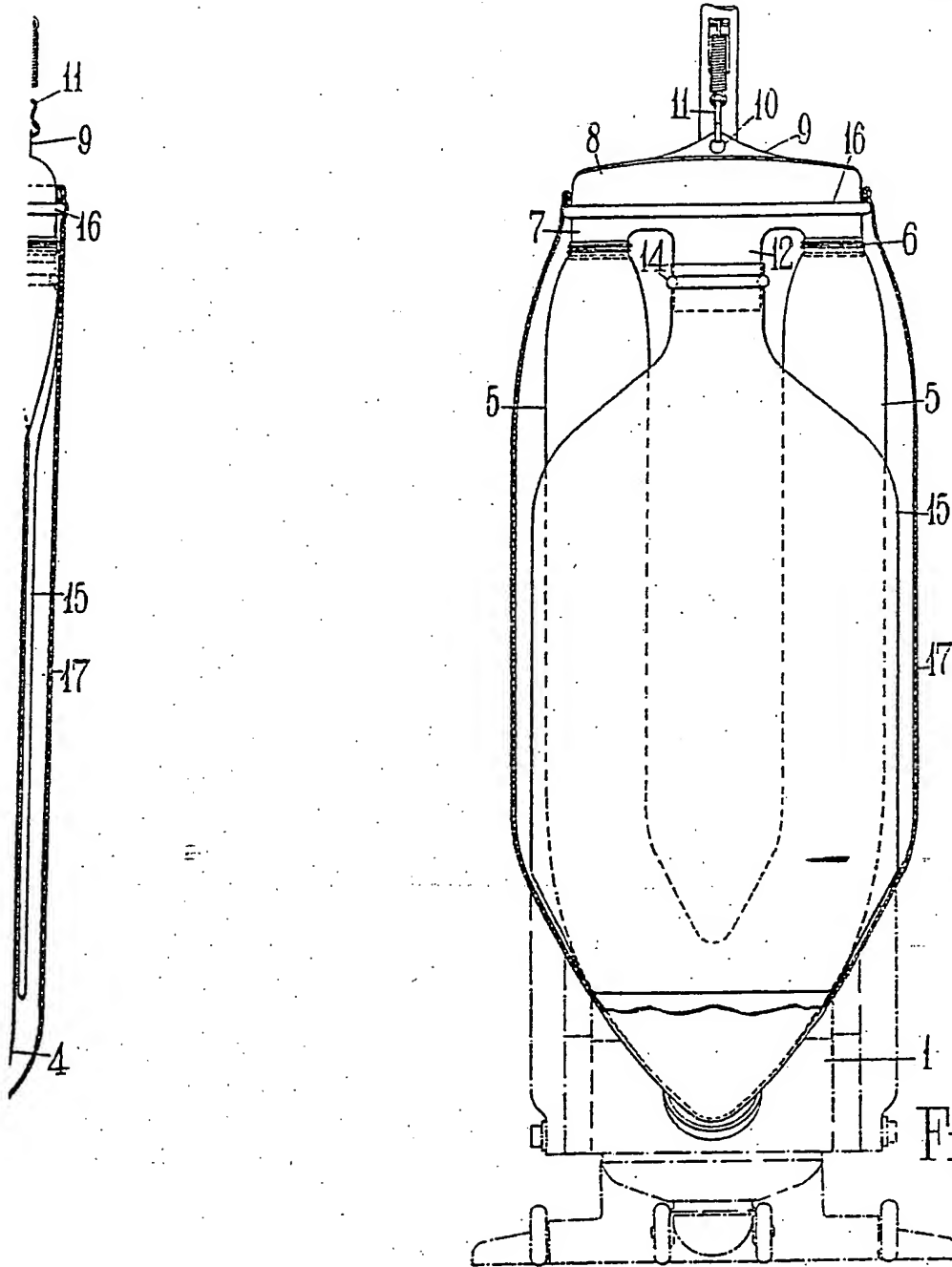


Fig 2

